State Hygienic Laboratory

The University of Iowa

Accession Number	107776
Date Sample Finalized	2013-07-26 15:14
Date Received	2013-07-08 13:00
Sample Source	Non-Drinking Water
Project	WQSWR
Date Collected	2013-07-01 08:00
Collection Site	storm sewer
Collection Town	OSKALOOSA
Sample Description	surface water
Client Reference	
Collector	dewitt dennis
Phone	

BILL GIBBONS
IDNR-FO 5
401 SW 7TH ST STE I
DES MOINES, IA 50309-4611

Note: Sample was received in a container not prepared by SHL. Improper sample bottle was received for the test requested.

Results of Analyses

Metals Qualitative Scan, EPA 200.8

Units		Analyzed In	Ankeny
Date Analyzed	2013-07-26 13:06	Date Verified	2013-07-26 15:14
Analyst	SGB	Verifier	BRW

Analyte	Result
Calcium	Absent
Potassium	Absent
Magnesium	Absent
Sodium	Absent
Strontium	Absent

Note: Sample exhibit the pattern of normal hard water with no real Heavy Metal presence.

GCMS Volatiles, EPA 8260

Units	ug/L	Analyzed In	Coralville
Date Analyzed	2013-07-09 10:56	Date Verified	2013-07-18 15:38
Analyst	LJL	Verifier	TGC

Analyte	Result	Quant Limit
Chloromethane	<5	5
Bromomethane	<5	5
Vinyl chloride	<5	5
Chloroethane	<5	5
Methylene chloride	<5	5
Methyl-t-butyl ether (MtBE)	<5	5
Acetone	40.	5
Carbon disulfide	<5	5
1,1-Dichloroethene	<5	5
1,1-Dichloroethane	<5	5
Total 1,2-Dichloroethenes	<5	5
Chloroform	<5	5
1,2-Dichloroethane	<5	5

Michael D. Wichman, Ph.D.
Associate Director
http://www.shl.uiowa.edu

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Coralville, IA 52241
319/335-4500 Fax: 319/335-4555

Lakeside Laboratory
1838 Highway 86
Milford, IA 51351
712/337-3669 ext. 6 Fax: 712/337-0227

Iowa Laboratories Complex
2220 S. Ankeny Blvd
Ankeny, IA 50023
515/725-1600 Fax: 515/725-1642

Accession Number | 107776

Analyte	Result	Quant Limit
2-Butanone	<5	5
1,1,1-Trichloroethane	<5	5
Carbon tetrachloride	<5	5
Bromodichloromethane	<5	5
1,2-Dichloropropane	<5	5
cis-1,3-Dichloropropene	<5	5
Trichloroethene	<5	5
Dibromochloromethane	<5	5
1,1,2-Trichloroethane	<5	5
Benzene	<5	5
trans-1,3-Dichloropropene	<5	5
Bromoform	<5	5
4-Methyl-2-pentanone	<5	5
2-Hexanone	<5	5
Tetrachloroethene	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Toluene	<5	5
Chlorobenzene	<5	5
Ethylbenzene	<5	5
Styrene	<5	5
Total Xylenes	<5	5

Note: This sample was improperly collected; results should be considered estimated. Also, two tentatively identified compounds, identified by mass spectral library search, were observed in the analysis of this sample at estimated concentrations:
Limonene, 97 ug/L
1-Methyl-4-(1-methylethyl)-1,4-cyclohexadiene, 19 ug/L

GCMS Semivolatiles, EPA 8270

Units	ug/L	Analyzed In	Coralville
Date Analyzed	2013-07-15 11:21	Date Verified	2013-07-18 15:38
Analyst	SES, TGC	Verifier	TGC
Analysis Prep	Prep by Separatory Funnel, EPA 3510 BNA		

Analyte	Result	Quant Limit
Phenol	<15	15
bis(2-Chloroethyl)ether	<15	15
2-Chlorophenol	<15	15
1,3-Dichlorobenzene	<15	15
1,4-Dichlorobenzene	<15	15
1,2-Dichlorobenzene	<15	15
2-Methylphenol	<15	15
2,2'-oxybis(1-Chloropropane)	<15	15
4-Methylphenol	<15	15
N-Nitroso-di-n-propylamine	<15	15
Hexachloroethane	<15	15
Nitrobenzene	<15	15
Isophorone	<15	15

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Analyte	Result	Quant Limit
2-Nitrophenol	<15	15
2,4-Dimethylphenol	<15	15
bis(2-Chloroethoxy) methane	<15	15
2,4-Dichlorophenol	<15	15
1,2,4-Trichlorobenzene	<15	15
Naphthalene	<15	15
4-Chloroaniline	<15	15
Hexachlorobutadiene	<15	15
4-Chloro-3-methylphenol	<15	15
2-Methylnaphthalene	<15	15
Hexachlorocyclopentadiene	<15	15
2,4,6-Trichlorophenol	<15	15
2,4,5-Trichlorophenol	<15	15
2-Chloronaphthalene	<15	15
2-Nitroaniline	<15	15
Dimethyl phthalate	<15	15
Acenaphthylene	<15	15
2,6-Dinitrotoluene	<15	15
3-Nitroaniline	<15	15
Acenaphthene	<15	15
2,4-Dinitrophenol	<15	15
4-Nitrophenol	<15	15
Dibenzofuran	<15	15
2,4-Dinitrotoluene	<15	15
Diethyl phthalate	<15	15
Fluorene	<15	15
4-Chlorophenyl phenyl ether	<15	15
4-Nitroaniline	<15	15
4,6-Dinitro-2-methylphenol	<15	15
N-Nitrosodiphenylamine	<15	15
4-Bromophenyl phenyl ether	<15	15
Hexachlorobenzene	<15	15
Pentachlorophenol	<15	15
Phenanthrene	<15	15
Carbazole	<15	15
Anthracene	<15	15
Di-n-butyl phthalate	<15	15
Fluoranthene	<15	15
Pyrene	<15	15
Butyl benzyl phthalate	<15	15
Benzo(a)anthracene	<15	15
3,3'-Dichlorobenzidine	<15	15
Chrysene	<15	15
bis(2-Ethylhexyl)phthalate	<15	15
Di-n-octyl phthalate	<15	15
Benzo(b)fluoranthene	<15	15
Benzo(k)fluoranthene	<15	15

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Analyte	Result	Quant Limit
Benzo(a)pyrene	<15	15
Indeno(1,2,3-cd)pyrene	<15	15
Dibenzo(a,h)anthracene	<15	15
Benzo(g,h,i)perylene	<15	15
Benzoic acid	16	15

Note: This sample was improperly collected; results should be considered estimated. Also, a number of tentatively identified compounds, identified by mass spectral library search, were observed in the analysis of this sample including fatty acids and the following compounds at estimated concentrations:
1-Methyl-2-(1-methylethyl)-benzene, 8 ug/L
Limonene, 46 ug/L
1-Methyl-4-(1-methylethyl)-1,4-cyclohexadiene, 13 ug/L
Benzeneacetic acid, 25 ug/L
Indole, 18 ug/L
Benzenepropanoic acid, 8 ug/L
Sulfur, 7 ug/L

Prep by Separatory Funnel, EPA 3510 BNA

Units		Analyzed In	Coralville
Date Analyzed	2013-07-10 08:00	Date Verified	2013-07-10 14:37
Analyst	MES	Verifier	KB

Description of Units used within this report

ug/L = Micrograms per Liter

The result(s) of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.
If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.

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